

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Biomechanics emphasis

Student Name: _____

(2018-19 Catalog) (MTH 124 Placement - 5 Year Program)

Student ID#: G

1st Year	1st Semester: Fall _____			2nd Semester: Winter _____			Semester: S/S _____												
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed										
	MTH 124	Functions & Models	5	_____	_____		* MTH 201	Calculus I	4	_____	_____								
	* WRT 150	Writ Strategies	4	_____	_____		* CHM 115	Chemistry I	4	_____	_____								
	@ GE - P & L (PHI 102 Ethics)		3	_____	_____		* EGR 106	Intro to Egr Design I	3	_____	_____								
	^ EGR 100	Intro to EGR	1	_____	_____		GE - Hist		3	_____	_____								
	^ EGR 180	EGR Prob Solving	3	_____	_____														
2nd Year	3rd Semester: Fall _____			4th Semester: Winter _____			Semester: S/S _____												
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed										
	* MTH 202	Calculus II	4	_____	_____		* MTH 203	Calculus III	4	_____	_____								
	* STA 220	Statistical Modeling	2	_____	_____		* PHY 230	Physics I	5	_____	_____								
	* EGR 220	Measure/Data Analysis	1	_____	_____		* EGR 226	MicroCtrl Pgm Appl	4	_____	_____								
	* EGR 107	Intro to Egr Design II	3	_____	_____		GE - Arts		3	_____	_____								
	! GE - LS (BMS 202)		4	_____	_____														
3rd Year	5th Semester: Fall _____			6th Semester: Winter _____			Semester: S/S _____												
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed										
	+ * PHY 234/1	Physics II	4/5	_____	_____		* MTH 302	Lin Alg & DEQ	4	_____	_____								
	* EGR 214	Circuit Analysis I	4	_____	_____		* EGR 309	Mach Design I	4	_____	_____								
	* EGR 209	Mech & Mach	4	_____	_____		* EGR 250	Mat Sci & Engrg	4	_____	_____								
	* EGR 289	Engrg Co-op Prep	1	_____	_____		\$ EGR 312	Dynamics	3	_____	_____								
	# GE - GP		3	_____	_____														
4th Year	7th Semester: Fall _____			Semester: Winter _____			8th Semester: S/S _____												
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed										
	EGR 346	Mechatronics & Ctrl	4	_____	_____		EGR 390	Engrg Co-op II (SWS)	3	_____	_____								
	EGR 360	Thermodynamics	4	_____	_____		EGR 447	Mech/Human Motion	3	_____	_____								
	GE - Issue		3	_____	_____														
	GE - Issue		3	_____	_____														
5th Year	Semester: Fall _____			9th Semester: Winter _____			10th Semester: S/S _____												
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed										
	EGR 490	Engrg Co-op III	3	_____	_____		EGR 485	Sr Project I	1	_____	_____								
	EGR 453	Biomedical Materials	3	_____	_____		EGR 403	Med Dev Design	3	_____	_____								
							EGR 435	Math Model Phys	3	_____	_____								
							EGR 465	Comp Fluid Dyn	3	_____	_____								
							• GE - US		3	_____	_____								

PCEC Student Services: (616)331-6025

- ^ Not required, but strongly recommended for success. Students are advised to take either EGR 100 or EGR 180.
- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
- # Consider taking a course that doubles as GP and Issue (See Gen Ed guide for selections)
- @ An ethics course is required in the engineering program (PHI 102)
Consider taking PHI 102 as an SWS
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- \$ Pre-requisite for required upper-level coursework
- ! Required for major

Secondary Admissions Criteria:

- A GPA of 2.7 or above in the Engineering Foundation courses
- Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, with no more than one repeat
- Completion of preparation for placement in the cooperative engineering education, EGR 289

Recommendation:

It is strongly encouraged that students do not begin or break a curriculum thread by taking courses at other institutions; e.g., take the MTH 201 equivalent elsewhere, return to GV and continue in the math thread with